#### PATENT COOPERATION TREATY

#### **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 607	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/GB2005/000446	International filing date (day/month/year) 10 February 2005 (10.02.2005)	Priority date (day/month/year) 14 February 2004 (14.02.2004)	
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant OLED-T LIMITED			

		•		
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.			
	In the attached sheets, any reference to the international preliminary re		of the International Searching Authority should be read as a reference oter I) instead.	
3.	This report contains indications r	elating to the following iter	ns:	
: .	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opi	inion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of inventio	on ,	
	Box No. V		er Article 35(2) with regard to novelty, inventive step or industrial and explanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VΠ	Certain defects in the into	ernational application	
	Box No. VIII	Certain observations on t	the international application	
4.	The International Bureau will connot, except where the applicant mate (Rule 44bis .2).	mmunicate this report to denakes an express request un	signated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but der Article 23(2), before the expiration of 30 months from the priority	
•				
		•	Date of issuance of this report 14 August 2006 (14.08.2006)	
	The International Burea		Authorized officer	
	34, chemin des Colo 1211 Geneva 20, Sw		Dorothée Mülhausen	
Facsin	Facsimile No. +41 22 338 82 70		e-mail: pt01@wipo.int	

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

From	the RNATIONAL SEARCHING AUTHO	DRITY			REC'D 1 4 SEP 2005	
To:				PQ	WADO	
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	see form PCT/ISA/220		WRITTEN OPINION OF THE			
	000 1011111 0 17107 1220		INTERNATION	IAL SEAF	RCHING AUTHORITY	
			(F	CT Rule	43 <i>bis</i> .1)	
			Date of mailing			
				form PCT/ISA	A/210 (second sheet)	
1	icant's or agent's file reference		FOR FURTHER A	CTION		
see	form PCT/ISA/220		See paragraph 2 below	<b>v</b>	*. ***********************************	
	national application No.  I/GB2005/000446	International filing date (c 10.02.2005	day/month/year)	year) Priority date (day/month/year) 14.02.2004		
Inter	national Patent Classification (IPC) or b	oth national classification	and IPC			
C09	K11/06, H01L51/30					
Appli FI ∆	cant .M-T LIMITED	•				
1.	This opinion contains indicatio	ns relating to the follo	owina items:			
		•				
	<ul><li>☑ Box No. I Basis of the opi</li><li>☑ Box No. II Priority</li></ul>	nion				
	<u> </u>	ent of opinion with rega	urd to novelty inventive	sten and in	dustrial applicability	
	Box No. IV Lack of unity of			otop und m	· addition applicability	
		ment under Rule 43 <i>bls</i>			ntive step or industrial	
•	applicability; cita	ations and explanations ents cited	supporting such state	ment	·	
		in the international app	lication		•	
	☐ Box No. VIII Certain observa	• •				
2.	FURTHER ACTION					
		minory ovamination is m	rada this opinion will u	anally ba sa		
	If a demand for international preling written opinion of the International the applicant chooses an Authority International Bureau under Rule 6 will not be so considered.	I Preliminary Examining y other than this one to	Authority ("IPEA"). Ho	owever, this hosen IPEA	does not apply where has notifed the	
	If this opinion is, as provided above submit to the IPEA a written reply months from the date of mailing of whichever expires later.	together, where approp	riate, with amendmen	ts, before the	e expiration of three	
	For further options, see Form PCT/ISA/220.					
3.	For further details, see notes to Fo	orm PCT/ISA/220.				
ivame	and mailing address of the ISA:		Authorized Officer			

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

41,

International application No. PCT/GB2005/000446

	_		
	Box	No.	Basis of the opinion
•	With the la	rega angu	ard to the language, this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item.
	!	angu	opinion has been established on the basis of a translation from the original language into the following lage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).
2.	With nece	rega ssar	ard to any nucleotide and/or amino acid sequence disclosed in the international application and y to the claimed invention, this opinion has been established on the basis of:
	a. typ	oe of	material:
		l a	sequence listing
		} ta	able(s) related to the sequence listing
•	b. for	rmat	of material:
		] ir	written format
		] ir	computer readable form
	c. tin	ne of	filing/furnishing:
		] c	ontained in the international application as filed.
		] fi	led together with the international application in computer readable form.
		] fi	urnished subsequently to this Authority for the purposes of search.
3.		has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.

4. Additional comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

.1.

International application No. PCT/GB2005/000446

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application,					
$\boxtimes$	claims Nos. 1-28					
bed	because:					
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	I the description, claims or drawings <i>(indicate particular elements below)</i> or said claims Nos. are so unclear that no meaningful opinion could be formed <i>(specify)</i> :					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the whole application or for said claims Nos. none for 9 and partially for 1-8,10-28					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form	-	has not been furnished			
	•		does not comply with the standard			
	the computer readable form		has not been furnished			
	•	· 🗖	does not comply with the standard			
	the tables related to the nucleonot comply with the technical re	otide a equira	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
	See separate sheet for further	detai	ls ·			

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

**→** 

International application No. PCT/GB2005/000446

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ent of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
ons:
shed in respect of the following parts of the international application:
ende in respect of the following parts of the international application.
<b>28</b>
Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or planations supporting such statement
•
Claims
Claims 1-8,10-28
Claims
Claims 1-8,10-28
laims 1-8,10-28
Claims

2. Citations and explanations

see separate sheet

Subject matter of claim 1 relates to electroluminescent compounds of formulae I, II, and III, which relate to three different groups of organometallic complexes. The common feature that links these three groups of compounds is their electroluminescent nature. These type of complexes are already known to be luminescent in the art, and this is evident by the indications in the application itself as well as by the citations given. Since the linking common feature is not novel, the subject matter lacks unity a priori, under Rule 13.1 PCT.

Two of these non-unitary subject matter have been searched; namely the ones regarding formula I and formula II (the second one without extra effort). This opinion is drafted therefore relating to the searched subject matter only.

Reference is made to the following documents:

D1: US-A-2001/019782

D2: WPI Derwent AN 2003-772342 -& JP-A-2003243175

D3: WPI Derwent AN 2004-259711 -& JP-A-2003192691

D4: US-A-2002/190250

Invention 1 covered by claims 1-6, 10-28 (partly), claim 7 (completely)

D1-D4 disclose electroluminescent compounds falling in the scope of formula I (D1 *inter alia* Compound 1-22 on page 12; D2 inter alia Compound Ir-8; D3 Compound 7 on page 4; D4 Structure VI on page 4). These disclosures anticipate the subject matter of claim 1. Likewise they do that of independent claims 10,11 and their dependent claims.

The method of preparation in claim 7 is also anticipated by the following disclosures: D1 page 17, paragraph 88; D4 page 5 paragraph 64 - page 6 paragraph 65. Thus the subject matter of claims 1-7, 10-28 is not novel under Article 33(2) PCT.

Invention 2 covered by claims 1-6, 10-28 (partly), claim 8 (completely)

D2-D4 disclose electroluminescent compounds falling in the scope of formula I (D1 Formula 11 on page 8; D2 inter alia Compound Ir-6; D3 Compound 9 on page 4). These disclosures anticipate the subject matter of claim 1. Likewise they do that of independent claims 10,11 and their dependent claims. Thus the subject matter of claims 1-6, 10-28 is not novel under Article

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000446

33(2) PCT.

The method of preparation in claim 8 also lacks novelty in the sense of Article 33(3) PCT. On page 17, paragraph 88, the method of synthesis of Iridium complexes such like are disclosed in a generic form.